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SCIENTIFIC COMMUNICATION

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I wish to present a paper

Title : Determination of moisture in total particulate matter by pyridine-free two-components Karl Fisher reagent.

Abstract (150 words)

A new method was developed for the determination of moisture in total particulate matter of cigarette smoke using a new type of pyridine-free reagent in the titration according to Karl Fisher. The new solvent consists of an acetate sodium methanol solution with sulphur dioxide, while a iodine methanol solution was used for titration. The results achieved in the determination of moisture in standard solutions and total particulate matter were considered and studied statistically. Also, a comparison was made between the conventional Karl Fisher reagent and the new one for the determination of moisture in total particulate matter. The analysis gave results which agreed each with the other; in particular, it was found that the new reagent can be more easily applied. Also, it showed none of the drawbacks evidenced by Karl Fisher; that is, re-titration, solvent stabilization, toxicity and the bad smell of pyridine.

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Source: https://www.industrydocuments.ucsf.edu/docs/mrgm0000